

*Indian Standard*  
**SPECIFICATION FOR  
SHIP'S ROUND EYE PLATES**

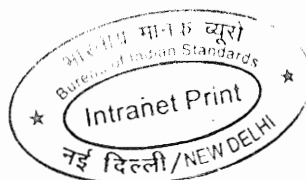
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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 1

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# *Indian Standard*

## SPECIFICATION FOR SHIP'S ROUND EYE PLATES

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**IS : 6203-1971**

( Continued from page 1 )

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*Indian Standard*  
SPECIFICATION FOR  
SHIP'S ROUND EYE PLATES

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 9 August 1971, after the draft finalized by the Shipbuilding Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

0.2 Eye plates are provided on the topmost deck and at other decks as required, to secure guy ropes from masts, derrick posts, etc.

0.3 Eye plates are provided with the sole plates to strengthen and increase the contact area, and are either directly riveted to deck or welded to deck.

0.4 In the preparation of this standard, assistance has been derived from DIN 82024 'Round eye plates', issued by Deutscher Normenausschuss.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS: 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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1. SCOPE

1.1 This standard specifies the material and dimensions for ship's round eye plates.

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definition shall apply.

2.1 **Safe Working Load**—The safe working load of the round eye plate is the maximum tensile load likely to occur in the guy ropes attached to the eye plate. If more than one rope is secured to the eye plate, the sum of the maximum tensile load on each of the rope, is the safe working load of the round eye plate.

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\*Rules for rounding off numerical values ( revised ).

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### **3. MATERIAL**

**3.1** Ship's round eye plates shall be made from any of the following material:

- a) Carbon steel forgings conforming to IS: 3261-1966\*
- b) Structural steel conforming to IS : 3039 - 1965†.

### **4. SHAPE AND DIMENSIONS**

**4.1** The shape and dimensions of the ship's round eye plates together with sole plate shall be as given in Table 1.

### **5. TOLERANCES**

**5.1** The tolerances on dimensions shall be of coarse series according to IS : 2102-1969‡.

### **6. MARKING**

**6.1** Each eye plate shall be marked legibly and indelibly with the manufacturers identification mark, and the safe working load.

**6.1.1** Round eye plates may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution ( Certification Marks ) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

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\*Specification for carbon steel forgings for shipbuilding industry.

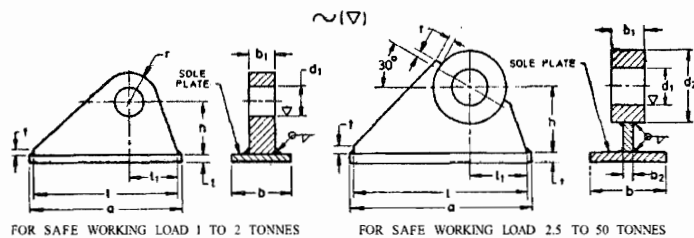
†Specification for structural steel (shipbuilding quality).

‡Allowable deviations for dimensions without specified tolerances (*first revision* ).

TABLE 1 DIMENSIONS FOR SHIP'S ROUND EYE PLATES TOGETHER WITH SOLE PLATE

( Clause 4.1 )

All dimensions in millimetres.



SAFE WORKING LOAD IN TONNES	$b_1$	$b_2$	$d_1$	$d_2$	$f$	$h$	$l$	$l_1$	$r$	SOLE PLATE			THROAT THICK- NESS OF WELD
										$a$	$b$	$t$	
1.0	16	—	18	—	4	32	85	28	18	90	40	6	3
1.6	20	—	22	—	5	40	110	36	22	115	45	6	4
2.0	22	—	24	—	5	44	120	40	24	125	50	6	4
2.5	25	8	27	54	6	48	130	44	—	135	55	8	5
3.2	28	8	30	60	6	54	145	48	—	150	65	8	5
4.0	30	8	34	68	7	60	155	52	—	165	70	10	5
5.0	35	10	37	74	8	72	180	64	—	190	80	10	6
6.3	40	10	40	80	9	78	200	68	—	210	90	10	6
8.0	45	12	46	92	10	90	230	76	—	240	105	12	7
10.0	50	14	51	102	11	96	260	88	—	270	115	14	7
12.5	55	14	56	112	12	104	290	96	—	300	130	16	8
16.0	60	16	64	128	13	120	310	104	—	325	140	18	8
20.0	65	20	70	140	14	136	340	120	—	355	150	20	9
25.0	70	20	79	158	15	144	360	128	—	380	160	22	10
32.0	80	20	85	170	17	160	410	136	—	430	190	25	11
40.0	90	25	93	186	19	180	460	152	—	480	210	28	13
50.0	100	25	101	202	21	200	500	168	—	525	235	32	14

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**AMENDMENT NO. 1 APRIL 1992**  
**TO**  
**IS 6203 :1971 SPECIFICATION FOR SHIP'S ROUND**  
**EYE PLATES**

[ *Page 4, clause 3.1 (a) and (b)* ] — Insert the following for the existing matter

- "a) Carbon steel forgings conforming to IS 3261:1980 'Specification for carbon steel forgings for shipbuilding industry (*first revision*)
- b) Structural steel conforming to IS 3039 :1980 'Specification for structural steels for construction of hulls of ships (*first revision*) ' . "

(*Page 4, foot-notes marked with '\*' and '†' symbols* — Delete.

(TED 17)

Reprography Unit, BIS, New Delhi, India